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| FORM PTO-1390 DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | AGENT'S DOCKET NUMBER 4590-337 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/508834 |
| INTERNATIONAL APPLICATION NO. PCT/FR03/00987 | INTERNATIONAL FILING DATE March 28, 2003 | PRIORITY DATE CLAIMED March 29, 2002 |
| TITLE OF INVENTION DEVICE FOR MEASURING THE EMISSION OF X RAYS PRODUCED BY AN OBJECT EXPOSED TO AN ELECTRON BEAM | | |
| APPLICANT(S) FOR DO/EO/US Emmanuel DE CHAMBOST; Chrystel HOMBOURGER; Juan MONTERO; Pierre MONSALLUT; and Pierre-Francois STAUB | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) as indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendment has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input checked="" type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)) is submitted herewith. 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) submitted herewith. 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)) is submitted herewith. | | |
| Items 11 to 20 below concern other document(s) or information included: | | |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording (including a separate cover sheet in compliance with 37 CFR 3.28 and 3.31) 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under CFR 1.76 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4) 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4) 20. <input checked="" type="checkbox"/> Other items or information: WO 03/083892 A1; PCT/IB/304; PCT/IPEA/416 | | |

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 2em; font-weight: bold; margin-left: 100px;">10/508834</div> | | INTERNATIONAL APPLICATION NO. PCT/FR03/00987 | | ATTORNEY'S DOCKET NUMBER 4590-337 | |
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| 21. <input checked="" type="checkbox"/> The following fees are submitted: | | | | | CALCULATIONS PTO USE ONLY | |
| BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO | | | | | \$ 1,080.00 | |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO | | | | | \$ 920.00 | |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO | | | | | \$ 770.00 | |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) | | | | | \$ 730.00 | |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) | | | | | \$ 100.00 | |
| ENTER APPROPRIATE BASIC FEE AMOUNT = | | | | | \$ 920.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | | \$ 0.00 | |

| CLAIMS | NUMBER FILED | | NUMBER EXTRA | RATE | | |
|--|--------------|--------|--------------|------------|------------------------|---------|
| Total Claims | 20 | - 20 = | 0 | × \$18.00 | \$ 0.00 | |
| Independent Claims | 1 | - 3 = | 0 | × \$86.00 | \$ 0.00 | |
| Multiple dependent claim(s) (if applicable) | | | | + \$290.00 | \$ 0.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | | \$ 920.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½. | | | | | \$ 0.00 | |
| SUBTOTAL = | | | | | \$ 920.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than the 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | | + | \$ 0.00 |
| TOTAL NATIONAL FEE = | | | | | \$ 920.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | | + | \$ 0.00 |
| TOTAL FEES ENCLOSED = | | | | | \$ 920.00 | |
| | | | | | Amount to be refunded: | \$ |
| | | | | | charged: | \$ |

a. ☐ A check in the amount of \$ _____.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. 07-1337 in the amount of \$ ____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1337. A duplicate copy of this sheet is enclosed.

c. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. Kindly use the attorneys' address associated with the following Customer Number for future correspondence.

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| SEND ALL CORRESPONDENCE TO: LOWE HAUPTMAN GILMAN & BERNER, LLP 1700 Diagonal Road, Suite 300 Alexandria, VA 22314 (703) 684-1111 | <div style="text-align: center;"> Customer No. 33308 <small>PATENT TRADEMARK OFFICE</small> </div> <div style="margin-top: 20px;"> <div style="text-align: center;"> Kenneth M. Berner <small>SIGNATURE</small> <small>NAME</small> 37,093 <small>REGISTRATION NUMBER</small> </div> </div> |
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